



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D5373-7

Job Sheet 166340



Part No: D5373-7

Job Qty: 10 ea

Part Name: Oil Drain Line



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 9/30/17

Job Tracking No:

Due Date: 10/31/17

Created By: Mario Poulin

Type: Stock

Description:

Note: DWG REV D IPP REV:A 17.05.17 NEW ISSUE DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup	Run	Workcenter / Supplier	Lead Time	
100	Purchasing	10 pcs		10/30/17	0.00	0.00	Purchasing		
110	Packaging	10 pcs		10/30/17	0.00	0.00	Packaging2		
120	QC	10 pcs		10/30/17	0.00	0.00	QC6		
121	CNC Vertical Machining	10 pcs		10/30/17	0.00	6.58	HAAS 1		
122	QC	10 pcs		10/30/17	0.00	0.00	QC2		
123	QC	10 pcs		10/30/17	0.00	0.00	QC8		
130	Small Fab	10 pcs		10/31/17	0.00	0.58	Small Fab		
140	QC	10 pcs		10/31/17	0.00	0.00	QC5		
150	Packaging	10 pcs		10/31/17	0.00	0.00	Packaging3		
160	QC21-SA	10 Ea		10/31/17	0.00	0.00	QC21		

Part Op 110 - Receive & Inspect for Damage & Mat'l Certs

Descriptions: 120 - QC6- All purchased or subcontracted products

122 - QC2- Inspect parts off machine FAI/FAIB

123 - QC8- Inspect parts - second check

140 - QC5- Inspect part completeness to step on W/O

150 - Identify as per dwg & Stock Location: _____

160 - QC21- Final Inspection - Work Order Release

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
100-Purchasing	101005-6CR-0150	10	0	0	0
130-Small Fab	F55059 D2182-045 3' 6" 11"	10	0	0	0
	5001213 D27294	10	0	0	0

Part Specifications

Specifications could not be found.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Cross tube ☐ Small Fab ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rep/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval					
Job No: 166340 Mtg Date: 10/23/17 Purchasing 10 D5373-7 PART NO: Revision: Operation: Quantity: Change No: S001234 AEROSPACE DART Oil Drain Line									
Root Cause <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-right: 1px solid black;"> Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ </td> <td style="width:50%;"> No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐ </td> </tr> </table>		Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	DART Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 TEL: 1 613 632-5200 Email: sales@dartaero.com www.dartaerospace.com		<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-right: 1px solid black;"> Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ </td> <td style="width:50%;"> Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ </td> </tr> </table>		Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐								
Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐								
OTHER : _____		<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-right: 1px solid black;"> Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐ </td> <td style="width:50%;"></td> </tr> </table>		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐									

Work Order ID 166340***166340***

Page 1

Friday, September 15, 2017 1:13:09 PM

Item ID: D5373-7 *212* Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Oil Drain Line
Start Date: 9/15/2017 Start Qty: 10.00 ***10*** Cust Item ID:
Required Date: 9/22/2017 Req'd Qty: 10.00 ***10*** Customer:
Reference:

Approvals: Process Plan: *POB* Date: SEP 15 2017 Tooling: *7-* Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D5373	E								

100 0.00

100

Purchasing

Purchasing

Memo

Issue P/O: *37817*

Purchase Part Number: 101005-6CR-0150

Supplier: STRATOFLEX

Certificate of conformity is required

*10**POB*
SEP 20 2017

110 Receive & Inspect for Damage & Mat'l Certs 0.00

110Packaging *2*

Packaging

Memo

0.00

10x SP17-1023

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐				
Date :	Step #:	QTY Effective :			MRB (QSI042) Approval	
Description Work Order Deviation		Disposition				
					Completed By	
					Lead hand / Supervisor Approval Verification	
					QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐						

Work Order ID 166340

166340

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Friday, September 15, 2017 1:13:09 PM

Item ID: D5373-7 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Oil Drain Line
 Start Date: 9/15/2017 Start Qty: 10.00 *10* Cust Item ID:
 Required Date: 9/22/2017 Req'd Qty: 10.00 *10* Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 *120* QC Quality Control	QC6- All purchased or subcontracted products Memo	0.00 0.00				<u>10</u>			DAS 38 9-89 OCT 24 2017
121 *121* HAAS 5 AXIS HAAS CNC vertical machine #5	Memo 1- Drill lock wire hole per folio FB505 DWG REV: <u>E</u> FOLIO REV: _____ 2- Deburr	0.00 0.00				<u>10</u>	<u>0</u>		DAS 20 9-89 17-11-05
122 *122* QC Quality Control	QC2- Inspect parts off machine FAI/FAIB Memo	0.00 0.00				<u>10</u>	<u>0</u>		DAS 20 9-89 17-11-05

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐								
		OTHER : _____							

Work Order ID 166340***166340***

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Friday, September 15, 2017 1:13:09 PM

Item ID: D5373-7 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Oil Drain Line
Start Date: 9/15/2017 Start Qty: 10.00 ***10*** Cust Item ID:
Required Date: 9/22/2017 Req'd Qty: 10.00 ***10*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
123	QC8- Inspect parts - second check	0.00							
123									
QC	Memo	0.00							
Quality Control									
130		0.00							
130									
Small Fab	Memo	0.60							
Small Fab	INSTALL LABEL D2729 AS PER DWG NOTES								
140	QC5- Inspect part completeness to step on W/O	0.00							
140									
QC	Memo	0.00							
Quality Control									

DAS
38
9-89

NGV 10 2017

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

166340

Friday, September 15, 2017 1:13:09 PM

N900040100

Setup Start *NS1*

Stop *NS2*

10

10

Customer:

Reference:

Run Start *NR1*

Stop *NR2*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

150 Identify as per dwg & Stock Location: _____

0.00

150

Packaging

Memo

0.00

Packaging

160

QC21- Final Inspection - Work Order Release

0.00

160

QC

Memo

0.00

Quality Control

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐								
		OTHER : ☐							

Picklist Print

Page 1

Friday, September 15, 2017 1:13:08 PM

Work Order ID: 166340

166340

Parent Item: D5373-7

D5373-7

Parent Item Name: Oil Drain Line

Start Date: 9/15/2017

Required Date: 9/22/2017

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP REV:A 17.05.17 NEW ISSUE DD VERF:JFS IPP
REV:B 17.09.15 AS PER DWG.E DD VERF:DP

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
101005-6CR-0150		Purchased	No			100	Each	0.0000	1	10			
101005-6CR-0150									**				
Oil Drain Line													
D2182-045		Manufactured	No			130	Each	0.0000	1	10			
D2182-045									**				
Heat Shrink 4.5" Long													
D2729-4		Manufactured	Yes			130	Each	0.0000	1	10			
D2729-4									**				
Red Decal													

10x 8/17-10-23

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

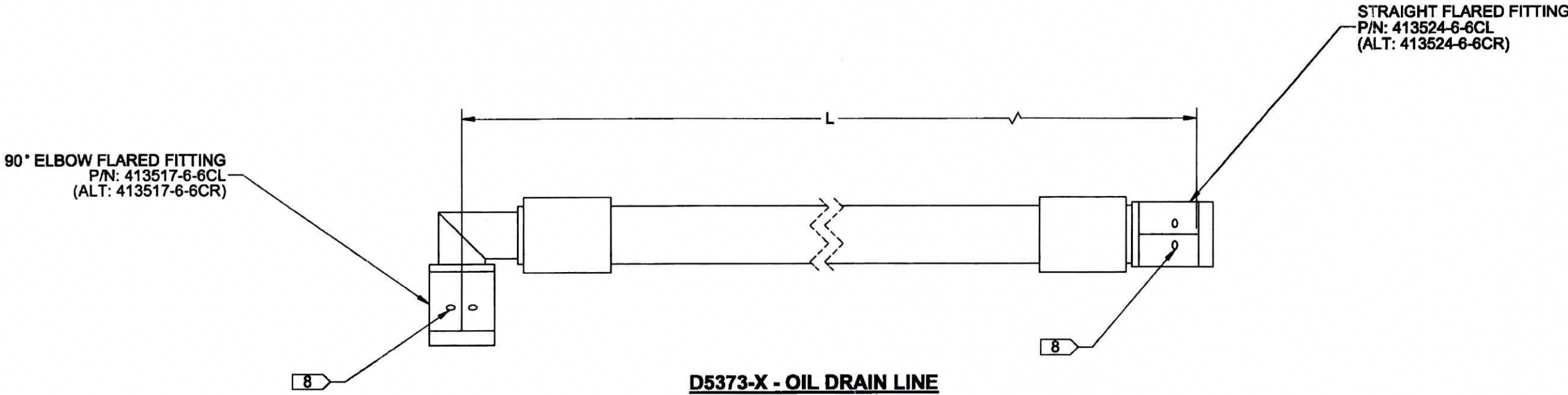


QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
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Root Cause		FAULT CATEGORY																							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐																							
Misidentified ☐	Past Due ☐																								

SPECIFICATION CONTROL DRAWING



DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	LENGTH "L" (INCHES)	MAX O.D. (INCHES)	MIN I.D. (INCHES)	WEIGHT (LBS)	SPECIFICATION	CONSTRUCTION TYPE	CONSTRUCTION REINFORCEMENT	COVER
D5373-7	OIL DRAIN LINE	STRATOFLEX	101005-6CL-0150 ALT: 101005-6CR-0150	15	0.615	0.298	0.35	AS4897 AND AS150 TYPE 1AB	SEAMLESS, EXTRUDED, CONDUCTIVE POLYTETRAFLUOROETHYLENE	CORROSION-RESISTANT STEEL WIRE BRAID	INTEGRAL SILICONE

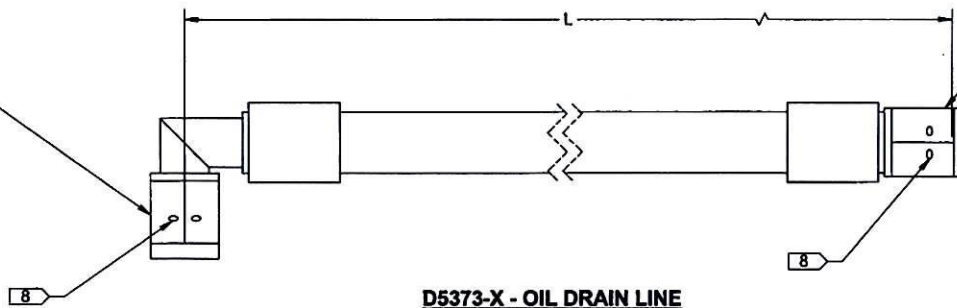
- NOTES:**
- 1) MATERIAL: PER TABLE
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
 - 7) WEIGHT: SEE TABLE
 - 8) FOR ALTERNATE PART NUMBERS (101005-6CR-XXXX), DRILL LOCK-WIRE HOLES PER SHEET 7, DETAIL D

APPROVED	DESIGN	CC	DART AEROSPACE USA, INC	
	DRAWN	WK	EUGENE, OREGON, USA	
	CHECKED	VS	DRAWING NO.	REV. E
	MFG. APPR.	DD	D5373	SHEET 3 OF 7
	APPROVED	HS	TITLE	SCALE
	DE APPR.	DS	OIL DRAIN LINE	NTS
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SPECIFICATION CONTROL DRAWING

90° ELBOW FLARED FITTING
P/N: 413517-4-4CL
(ALT: 413517-4-4CR)

STRAIGHT FLARED FITTING
P/N: 413524-4-4CL
(ALT: 413524-4-4CR)



D5373-X - OIL DRAIN LINE

DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	LENGTH "L" (INCHES)	MAX O.D. (INCHES)	MIN I.D. (INCHES)	WEIGHT (LBS)	SPECIFICATION	CONSTRUCTION TYPE	CONSTRUCTION REINFORCEMENT	COVER
D5373-1	OIL DRAIN LINE	STRATOFLEX	101005-4CL-0180 ALT: 101005-4CR-0180	18	0.500	0.173	0.26	AS4897 AND AS150 TYPE 1AB	SEAMLESS, EXTRUDED, CONDUCTIVE POLYTETRAFLUOROETHYLENE	CORROSION-RESISTANT STEEL WIRE BRAID	INTEGRAL SILICONE
D5373-3	OIL DRAIN LINE	STRATOFLEX	101005-4CL-0062 ALT: 101005-4CR-0062	6.25	0.500	0.173	0.17	AS4897 AND AS150 TYPE 1AB	SEAMLESS, EXTRUDED, CONDUCTIVE POLYTETRAFLUOROETHYLENE	CORROSION-RESISTANT STEEL WIRE BRAID	INTEGRAL SILICONE

NOTES:

- 1) MATERIAL: PER TABLE
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
- 7) WEIGHT: SEE TABLE
- 8) FOR ALTERNATE PART NUMBERS (101005-4CR-XXXX), DRILL LOCK-WIRE HOLES PER SHEET 6, DETAIL A

E	UPDATED D5373-3/7/9/11, ADDED SHT 3, 4 & 7	WK	17.09.11
D	ADDED D5373-7/9/11	WK	17.04.25
C	ADDED D5373-5	CC	16.12.01
B	ADDED NOTE 8 AND DETAIL A	CC	16.11.07
A	NEW ISSUE	CC	16.01.07
REV.	DESCRIPTION	BY	DATE
DESIGN	CC		
DRAWN	WK		
CHECKED	VS		
MFG. APPR.	DD		
APPROVED	HS		
DE APPR.	DS		
DATE	17.09.11		

DART AEROSPACE USA, INC
EUGENE, OREGON, USA

DRAWING NO. **D5373** REV. E
SHEET 1 OF 7
TITLE **OIL DRAIN LINE** SCALE NTS

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2017-09-19
ECW 17-613

APPROVED

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

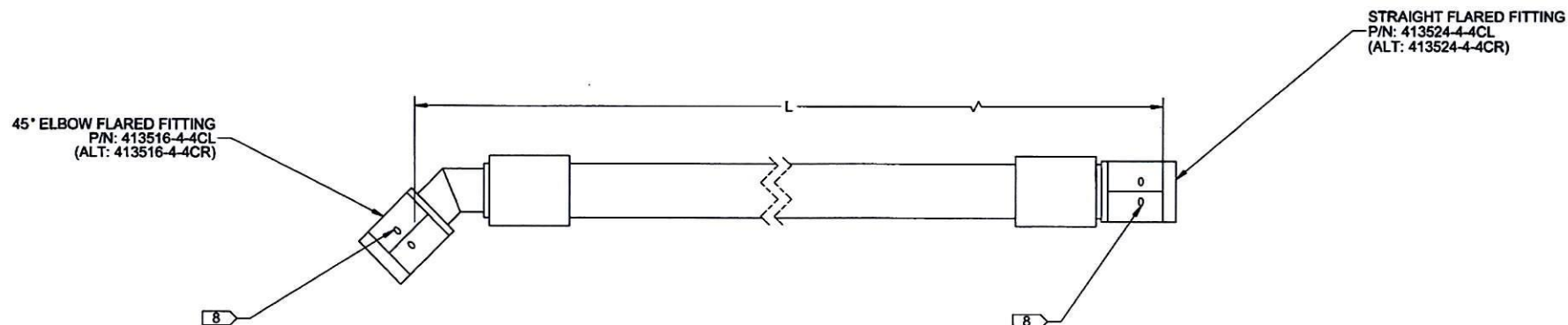
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong	
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions	
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance	
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect	
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing	
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved	
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing	
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish	
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread	
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence	
Past Expiry Date ☐	☐ Manufacturing Process	☐ OTHER :				
Misidentified ☐	☐ Past Due					

SPECIFICATION CONTROL DRAWING



D5373-X - OIL DRAIN LINE

DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	LENGTH "L" (INCHES)	MAX O.D. (INCHES)	MIN I.D. (INCHES)	WEIGHT (LBS)	SPECIFICATION	CONSTRUCTION TYPE	CONSTRUCTION REINFORCEMENT	COVER
D5373-5	OIL DRAIN LINE	STRATOFLEX	101003-4CL-0080	8	0.500	0.173	0.17	AS4897 AND AS150 TYPE 1AB	SEAMLESS, EXTRUDED, CONDUCTIVE POLYTETRAFLUOROETHYLENE	CORROSION-RESISTANT STEEL WIRE BRAID	INTEGRAL SILICONE
			ALT: 101003-4CR-0080								

NOTES:

- 1) MATERIAL: PER TABLE
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
- 7) WEIGHT: SEE TABLE
- 8) FOR ALTERNATE PART NUMBERS (101003-4CR-XXXX), DRILL LOCK-WIRE HOLES PER SHEET 6, DETAIL A

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2017-09-19

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DESIGN	CC	DART AEROSPACE USA, INC.	
DRAWN	WK	EUGENE, OR	
CHECKED	VS	DRAWING NO.	REV. E
MFG. APPR.	DD	D5373	SHEET 2 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	OIL DRAIN LINE	NTS
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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

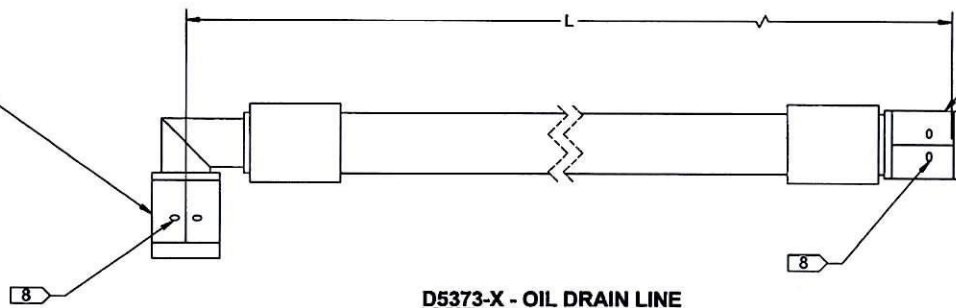
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER :					

SPECIFICATION CONTROL DRAWING

90° ELBOW FLARED FITTING
P/N: 413517-6-6CL
(ALT: 413517-6-6CR)

STRAIGHT FLARED FITTING
P/N: 413524-6-6CL
(ALT: 413524-6-6CR)



D5373-X - OIL DRAIN LINE

DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	LENGTH "L" (INCHES)	MAX O.D. (INCHES)	MIN I.D. (INCHES)	WEIGHT (LBS)	SPECIFICATION	CONSTRUCTION TYPE	CONSTRUCTION REINFORCEMENT	COVER
D5373-7	OIL DRAIN LINE	STRATOFLEX	101005-6CL-0150	15	0.615	0.298	0.35	AS4897 AND AS150 TYPE 1AB	SEAMLESS, EXTRUDED, CONDUCTIVE POLYTETRAFLUOROETHYLENE	CORROSION-RESISTANT STEEL WIRE BRAID	INTEGRAL SILICONE
			ALT: 101005-6CR-0150								

NOTES:

- 1) MATERIAL: PER TABLE
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
- 7) WEIGHT: SEE TABLE
- 8) FOR ALTERNATE PART NUMBERS (101005-6CR-XXXX), DRILL LOCK-WIRE HOLES PER SHEET 7, DETAIL D

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2017-09-19

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DESIGN	CC	DART AEROSPACE USA, INC	
DRAWN	WK	EUGENE, OREGON, USA	
CHECKED	VS	DRAWING NO.	REV. E
MFG. APPR.	DD	D5373	SHEET 3 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	OIL DRAIN LINE	NTS
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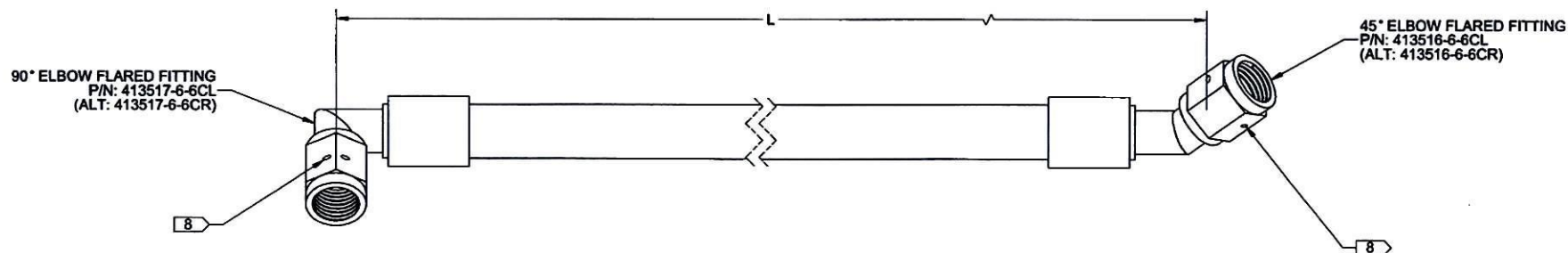
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

SPECIFICATION CONTROL DRAWING



D5373-X - OIL DRAIN LINE

DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	LENGTH "L" (INCHES)	MAX O.D. (INCHES)	MIN I.D. (INCHES)	WEIGHT (LBS)	SPECIFICATION	CONSTRUCTION TYPE	CONSTRUCTION REINFORCEMENT	COVER
D5373-9	OIL DRAIN LINE	STRATOFLEX	101062D0170CL270	17	0.615	0.298	0.41	AS4897 AND AS150 TYPE 1AB	SEAMLESS, EXTRUDED, CONDUCTIVE POLYTETRAFLUOROETHYLENE	CORROSION-RESISTANT STEEL WIRE BRAID	INTEGRAL SILICONE
			ALT: 101062D0170CR270								

NOTES:

- 1) MATERIAL: PER TABLE
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
- 7) WEIGHT: SEE TABLE
- 8) FOR ALTERNATE PART NUMBERS (101062D0170CRXXX), DRILL LOCK-WIRE HOLES PER SHEET 7, DETAIL D

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2017-09-19

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DESIGN	CC	DART AEROSPACE USA, INC. EUGENE, OR	
DRAWN	WK		
CHECKED	VS	DRAWING NO.	REV. E
MFG. APPR.	DD	D5373	SHEET 4 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	OIL DRAIN LINE	NTS
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DQA: _____ Date: _____



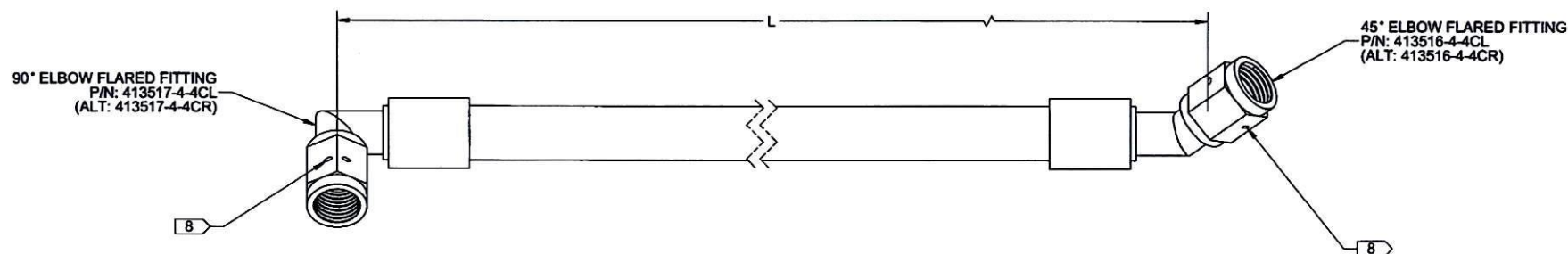
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

SPECIFICATION CONTROL DRAWING



D5373-X - OIL DRAIN LINE

DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	LENGTH "L" (INCHES)	MAX O.D. (INCHES)	MIN I.D. (INCHES)	WEIGHT (LBS)	SPECIFICATION	CONSTRUCTION TYPE	CONSTRUCTION REINFORCEMENT	COVER
D5373-11	OIL DRAIN LINE	STRATOFLEX	101062B0160CL270	16	0.500	0.173	0.26	AS4897 AND AS150 TYPE 1AB	SEAMLESS, EXTRUDED, CONDUCTIVE POLYTETRAFLUOROETHYLENE	CORROSION-RESISTANT STEEL WIRE BRAID	INTEGRAL SILICONE
			ALT: 101062B0160CR270								

NOTES:

- 1) MATERIAL: PER TABLE
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
- 7) WEIGHT: SEE TABLE
- 8) FOR ALTERNATE PART NUMBERS (101062B0160CRXXX), DRILL LOCK-WIRE HOLES PER SHEET 6, DETAIL A

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2017-09-19

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DRAWN	WK	EUGENE, OR	
CHECKED	VS	DRAWING NO.	REV. E
MFG. APPR.	DD	D5373	SHEET 5 OF 7
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	OIL DRAIN LINE	NTS
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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
Root Cause				FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO37817

Supplier: AVI002-VU
Aviall
PO BOX 842275
Dallas, TX 75284-2275 USA
Phone: 905-676-1695
Fax: 905-676-9046

PO No: PO37817
PO Date: 9/20/17
Due Date: 10/20/17
**Purchase Order
Revision:**
Revision Date:
Ship-To Contact: Phone:

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Pymt Terms: net 30
Freight Terms:
Special Comments:

Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	101005-4CR-0062	-	Oil Drain Line		Firmed	10/20/17	10 pcs	0 pcs	10 pcs	\$108.12/pcs	\$1,081.20
Line Item Note As per Dwg D5373 Rev.E Job # 166339											
2	101005-6CR-0150	-	Oil Drain Line		Firmed	10/20/17	10 Ea	0 Ea	10 Ea	\$182.73/Ea	\$1,827.30
Line Item Note As per Dwg D5373 Rev E Job # 166340											
3	101062D0170C270	-	Oil Drain Line		Firmed	10/20/17	10 Ea	0 Ea	10 Ea	\$393.77/Ea	\$3,937.70
Line Item Note As per Dwg D5373 Rev.E Job 166341											
4	101062B0160C270	-	Oil Drain Line		Firmed	10/20/17	10 Ea	0 Ea	10 Ea	\$204.88/Ea	\$2,048.80
Line Item Note As per Dwg D5373 Rev. E Job # 166342											
Grand Total:										\$8,895.00	

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

DAS
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Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



PACKING LIST



DELIVERY NUMBER: 8004975295

ROUTE: US FedEx International Priority

PAGE:1 of 1

DATE:27SEP17

TIME:07:49:26

EMP:00000000

ORD TYP: ZOR 132

CURRENCY:USD

TERMS:Net 30

CUSTOMER PO:37817
ORDER NUMBER:1003447157
ORDER DATE:22SEP17

B 10003951
I DART AEROSPACE LTD
L 1270 ABERDEEN STREET
L HAWKESBURY ON K6A 1K7
T CANADA
O

S 10003951
H DART AEROSPACE LTD
I 1270 ABERDEEN STREET
P HAWKESBURY ON K6A 1K7
T CANADA
O

S 1009
H AVIALL DALLAS HOSE SHOP
I DALLAS HOSE SHOP
P 2755 REGENT BLVD
F DFW AIRPORT TX 75261
R USA
O

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	QUANTITY BACK ORDER	UOM		CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
000010	0	1S	101005-4CR0062 HOSE: LT PRESSURE,PTFE	10	10	0	EA		108.12	1,081.20
			BATCH 100135185		10					
000020	0	1S	101005-6CR0150 HOSE: LT PRESSURE,PTFE	10	10	0	EA		182.73	1,827.30
			BATCH 100135186		10					
000030	0	1S	101062D0170C270 HOSE: LT PRESSURE,PTFE,ASSEMBLY	10	10	0	EA		393.77	3,937.70
			BATCH 100135187		10					
000040	0	1S	101062B0160C270 HOSE: LT PRESSURE,PTFE,ASSEMBLY	10	10	0	EA		204.88	2,048.80
			BATCH 100135188		10					

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SPR 10-23

This is not an Invoice.
For payment processing, please refer to Invoice.

The recipient of these goods agrees to comply with all export regulations governing the transfer, sale, lease, or use of these goods.
Diversion contrary to U.S. Law is prohibited.

CERTIFICATE OF CONFORMANCE

It is hereby certified that Aviall Services, Inc., is an approved distributor and meets all requirements of ISO9001, AS9100, AS9120 and AC 00-56 at 2750 Regent Blvd, DFW Airport, Texas. The products, articles or parts referenced on this document are in new or overhauled condition and were purchased from an approved source (FAA, EASA, TCCA, Mil Spec or Commercial). The Original Manufacturers' Certifications are maintained on file at our central office location, and copies are available upon request or at Aviall.com. For overhauled or repaired products, articles or parts, the original FAA 8130-3 / EASA Form 1 (Return to Service) or Yellow Tag, from the FAA/JAA/EASA approved Air Agency are attached to the component.

JR Hofmann, Director, Global Quality

27SEP17
Date

DISCOUNT TERMS APPLY ONLY TO SUB TOTAL. ALL
RETURNED MERCHANDISE SUBJECT TO HANDLING
FEE.
THIS IS TO CERTIFY THAT AVIALL HAS COMPLIED WITH
THE PROVISIONS OF THE FAIR LABOR ACT OF 1938
AMENDED.

CUSTOMER COPY



Hose Shop 2755 Regent Blvd, Dfw Airport, TX 75261
Phone: 972-586-1380 Fax: 972-586-1381

WWW.AVIALL.COM

TSO CERTIFICATION

It is hereby certified that (A) The parts and/or materials reflected herein were produced under Federal Aviation Administration approved manufacturing and quality control system/methods as set forth in the FAA issued technical standard order authorizations (TSOA) issued to Stratoflex and (B) such parts and/or materials are new and are in condition for safe operation.

Aviall Order Number: 1003447157

0010: 101005-4CR0062

10 ea.

0020: 101005-6CR0150

10 ea.

0030: 101062D0170C270

10 ea.

0040: 101062B0160C270

10 ea.

Signed: _____

Date: **09/26/2017**

Aviall is not providing OEM parts. Aviall is an authorized Stratoflex distributor providing TSO assemblies. Numbers referenced per customer requirements are for customer reference ONLY and are in no way intended to be represented as OEM parts. Any reference to an OEM part number does not authorize or reflect installation authority for this part. The installation authority is provided by the mechanic installing this product in accordance with FAR Part 43. If applicable, satisfactory compliance with the conditions and tests required for TSO approval indicates the hose assembly has met the minimum performance standards as stated in the TSO. Furthermore, it is the responsibility of the installer to determine the installation eligibility and that it will not cause the hose assembly to be subjected to conditions in excess of those for which it has been approved.